

ABSTRACT OF THE DISCLOSURE

A Ground Runway Awareness and Advisory System (GRAAS) that provides supplemental position information and airport situational awareness alerts and advisories to pedestrians and vehicle operators during surface operations by providing timely aural, 5 textual, graphic or pictographic alerts and advisory messages to pedestrians and vehicle operators in a significant number of different scenarios that have led to past runway and taxiway incursion occurrences. These messages are optionally supplemented by a situational awareness video display wherein one or more of the user's position, heading and ground speed are superimposed on a graphic display of airport features of interest. The GRAAS 10 thereby satisfies one clear requirement in reducing VPDs: that the pedestrians or vehicle operators have a clear understanding of the airport layout, including designations of runways and taxiways, and their position relative to the airport layout and features, including aircraft, other ground vehicle traffic and pedestrians where position information is available.